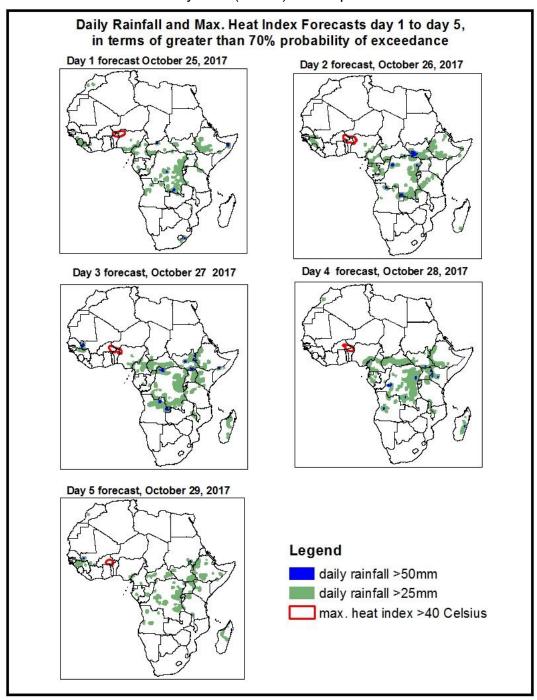
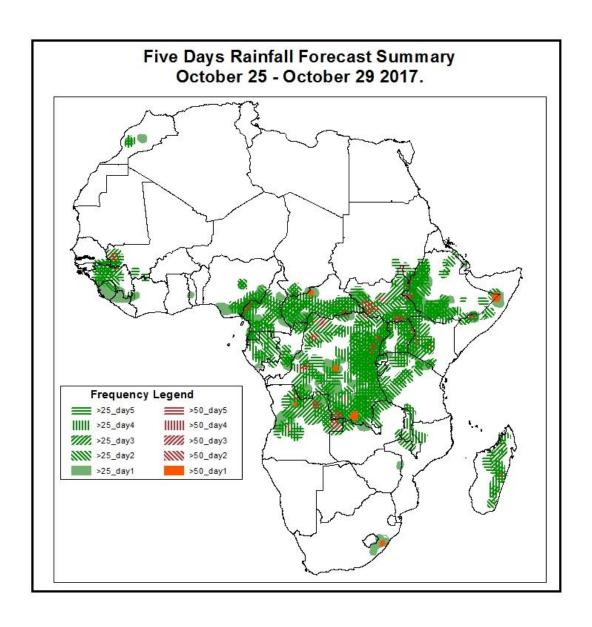
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on Oct 24, 2017)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Oct 25, -Oct 29, 2017)

The forecasts are expressed in terms of high probability of precipitation (POP) and high probability of maximum heat index, based on the NCEP/GFS, ECMWF and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.



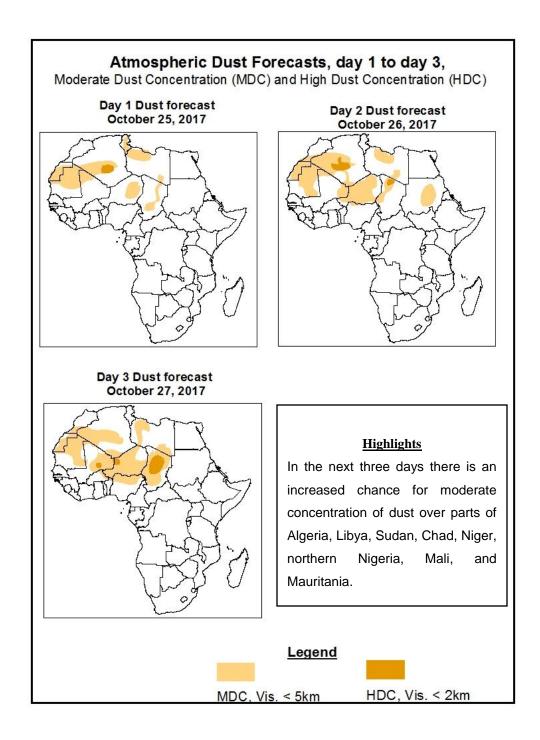


Highlights

In the next five days, active lower-level meridional convergence associated with the Congo air boundary (CAB) between the South Sudan to the southeast DRC and low level wind convergences in the far western Africa, the equatorial Africa and parts of Angola, Ethiopia and Madagascar are expected to enhance rainfall in the respective regions. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over many places in Guinea, southwestern Mali, southeastern of Nigeria, Cameroon, CAR, Equatorial Guinea, Gabon, central Congo, DRC, South Sudan, western Ethiopia, western Kenya, Uganda, western Tanzania, Burundi, Rwanda, northern Angola, Malawi, central Somalia and Madagascar.

1.2. Atmospheric Dust Concentration Forecasts (valid: Oct 25, – Oct 27, 2017)

The forecasts are expressed in terms of high probability of dust concentration, based on the Navy Aerosol Analysis and Prediction System, NCEP/GFS lower-level wind forecasts and expert assessment.



1.3. Model Discussion, Valid: Oct 25 – Oct 29, 2017

The Azores High Pressure system over the North Atlantic Ocean is expected to intensify its central pressure value of 1027hpa to 1033hpa towards the end of the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is expected to intensify in the next 24hours its central pressure value of 1030hpa to 1036hpa and then weaken in next 72hours to 1026hpa towards the end of the forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to intensify in the next 24hours its central pressure value of 1029hpa to 1030hpa and then weaken to 1026hpa in next 72hours towards the end of the forecast period.

The heat low over western Sahel is expected to maintain from its value of 1009hpa in the next 72hours and then deepen in the next 48hours to 1008hpa towards the end of the forecast period.

Over the central Sahel, the heat low is expected to slightly deepen from its value of 1010hpa in the next 48hours to 1009hpa and maintain its value in the 72hours towards the end of the forecast period.

Over the Sudan area, the heat low is expected to deepen from its value of 1010hpa in the next 24hours to 1007hpa and then maintain its value in the next 72hours towards the end of the forecast period.

At 925hPa, there is a convergence over West Africa and the Sudan area with some vortices developing over the west Sahel and the Sudan area which are dominated by the continental winds and are moving westward towards the end of the forecast period.

Another strong convergence is established over Angola to Namibia which traverse through DRC and extends to western Tanzania, Burundi, Rwanda and then to southern Sudan and moves slightly to east direction towards the end of the forecast period.

The dry north easterlies to easterly winds propagating from the subtropical high pressure system over North Africa sustained the spreading and transportation of the Saharan dust over northern Sudan, northern Chad, northern Niger, northern Mali and northern Mauritania.

At 850hPa, there is a convergence flow over West Africa with a low pressure system developing over the Central Sahel which is dominated by the continental winds and is propagating westward to the end of the forecast period.

There is another strong convergence over the southeastern DRC which traverse and extends to western Tanzania, Burundi, Rwanda and then to Uganda and is quasi-stationary towards the end of the forecast period.

In the next five days, active lower-level meridional convergence associated with the Congo air boundary (CAB) between the South Sudan to the southeast DRC and low level wind convergences in the far western Africa, the equatorial Africa and parts of Angola, Ethiopia and Madagascar are expected to enhance rainfall in the respective regions. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over many places in Guinea, southwestern Mali, southeastern of Nigeria, Cameroon, CAR, Equatorial Guinea, Gabon, central Congo, DRC, South Sudan, western Ethiopia, western Kenya, Uganda, western Tanzania, Burundi, Rwanda, northern Angola, Malawi, central Somalia and Madagascar.

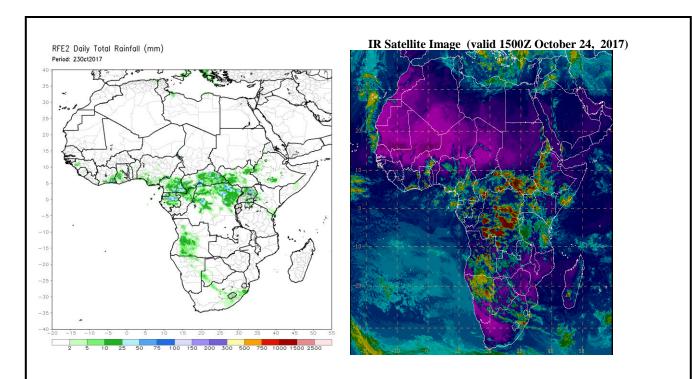
2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (October 23, 2017)

Moderate to locally heavy rainfall was observed over southern Ivory Coast, southern Ghana, southern Nigeria, southern Cameroon, northern Congo, parts of CAR, DRC, Uganda, Rwanda, Burundi, southern South Sudan, Ethiopia, western Kenya, northwestern Tanzania, northeastern Angola and central Madagascar.

2.2. Weather assessment for the current day (October 24, 2017)

Intense convective clouds are observed over portions of West, Central and East Africa.



Previous day rainfall condition over Africa (Left) based on the NCEP CPCE/RFE and current day cloud cover (right) based on IR Satellite image.

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